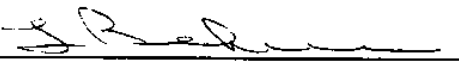
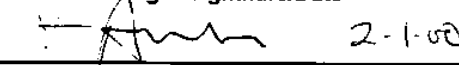
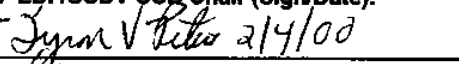
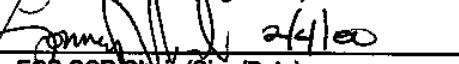


ECS Configuration Change Request

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Page(s)

1. Originator Layne Behrens	2. Log Date: 2 Feb 00	3. CCR #: 00.0108	4. Rev: -	5. Tel: 4162	6. Rm #: 2053B	7. Dept. ICOTS
8. CCR Title: SGI IRIX 6.2 Patch PSR						
9. Originator Signature/Date  2/4/2000		10. Class II	11. Type: CCR	12. Need Date: 2/3/2000		
13. Office Manager Signature/Date  2-1-00		14. Category of Change: PSR		15. Priority: (If "Emergency" fill in Block 28). Routine		
16. Documentation/Drawings Impacted: 911-TDA-004 SGI IRIX6.2 O/S Patches, 920-TDG/N/P/V/E/L-014 O/S and COTS Hardware Patch Maps		17. Schedule Impact:		18. CI(s) Affected:		
19. Release Affected by this Change: 5A, 5B		20. Date due to Customer: 2/3/2000		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSED25243 SGI Leap Year Bug						
23. Problem: (use additional Sheets if necessary) All SGI IRIX 6.2 hosts need to be patched for security, y2k, DCE and compiler fixes.						
24. Proposed Solution: (use additional sheets if necessary) The SGI IRIX 6.2 Recommended OS, Security, and Y2K Patch Updates: includes DCE and compiler patches PSR will be distributed to all DAACs to patch their IRIX 6.2 hosts. By Tar files: IRIX6.2-A11-12-99.tar irix6.2-patchlist-022000.tar						
25. Alternate Solution: (use additional sheets if necessary)						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) There is a y2k leap year bug and security vulnerabilities						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments: Update Sec. 5 with NCR partially fixed on SGI		30. Work Assigned To: DL Behrens		31. CCR Closed Date:		
32. EDF/SCDV CCB Chair (Sign/Date):  2/4/00		Disposition: <u>Approved</u> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
33. M&O CCB Chair (Sign/Date):  2/4/00		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
34. ECS CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS				

CM01JA00

ECS/EDF/SCDV/M&O

ADDITIONAL SHEET

CCR #: 00000008 Rev: - Originator: Layne Behrens

Telephone: 4162 Office: 2053b

Title of Change: SGI IRIX 6.2 Patch PSR

NCR ID: ECSed25243 Status: MERGED Submitted: 000113
NCR Class: OPERATIONS Project: OPS_COTS Enclosures: 4

NCR TITLE...
SQL Leap Year Bug

PROBLEM INFORMATION...	ANALYSIS INFORMATION...
Build Name[*]: Drop 5A.04	Evaluate Engineer: ebehrens
Test Site[*]: EDF	Assigned To: ebehrens
Detection Method[*]: Analysis	Analysis Due Date (yymmdd):
Detected-In-Phase[*]: Code Inspection	
Test Case ID:	COST ANALYSIS INFORMATION...
Machine Name:	Cost[*]: LOW
Severity (1=Showstopper)[*]: 2	Estimated Fix Time(hrs): 2
Mission-Criticality (Admin Use Only): 0	Estimated Fix Date(yymmdd): 000201
Mode [*]: Other	Workaround Available? N
Trouble Ticket:	
DAAC Trouble Ticket:	TO BE FIXED INFORMATION...
SUBMITTER INFORMATION...	Problem type[*]: COTS/OS
Submitter: rwhite	Recommended change[*]: COTS/OS
	Implement Due Date (yymmdd):

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NCR Class: OPERATIONS Project: OPS_COTS

MERGE INFORMATION..
Resolution[*]: COTS/OS
Resolved by: ebehrens
Iteration:
Indicate_SLOC[*]: Not Applicable
Num_SLOC: 0
Fixing time (hrs): 2
Affect CSCI: all
Merge Build Id:
Documentation affected (Y/N)? Y

***** Problem *****

Please describe the problem you are experiencing below, including what you did, what you expected to happen, and what actually happened:

This bug was reports to us by SGI:

3566: 6.2 all platform kernel rollup
System loses day on reboot

Bug Number : 627685
Product : IRIX
Category : software
Classification : bug

Priority : 1
Status : closed
Date Opened : 08/12/98
Date Updated : 08/09/99
Summary : System loses day on reboot

Description :

There is a bug in the software that sets the System Clock from the Real Time Clock (RTC) at boot time.

This problem only occurs on the following systems: Challenge, Onyx, Power Challenge, Power Challenge 10000, Power Onyx, Power Onyx 10000, Origin200, Origin2000 and Onyx2 systems.

The symptoms of this bug depend on the installed system software.

For a system running IRIX 6.2 without patch 2859; or IRIX 6.4 without patch 2980. If the system is rebooted on or between March 1, 1998 and February 28, 2000, the System Clock will be exactly one day slow. This problem recurs for the same period in 2002-2004, 2006-2008, and so on.

For a system running IRIX 6.2 with patch 2859 but not patch 3554; IRIX 6.4 with patch 2980 but not patch 3554; or IRIX 6.5 (base release or 6.5.1 or 6.5.2 overlay releases). This problem occurs when the system is shut down or placed in PROM mode before midnight, February 29, of a leap year, and not rebooted until March 1 or later. When the system is booted, the System Clock will be exactly one day slow.

For a system running IRIX 6.2 with patch 3554 but not patch 3704; IRIX 6.4 with patch 3554 but not patch 3711; IRIX 6.5.3; or IRIX 6.5.4. This problem occurs when the system is shut down or placed in PROM mode before midnight, February 28, of an even-numbered year that is not a leap year, and not rebooted until March 1 or later. When the system is booted, the System Clock will be exactly one day fast.

Workaround:

On rebooting, check the date given by the System Clock. If it is incorrect, set it manually.

***** Resolution (Added 000113 by ebehrens) *****

The SGI patch 3356: 6.2 All Platform Kernel Rollup fixes this problem. A PSR for release of this and other os patches is in progress.

***** Analysis *****

Please describe your Analysis:
Problem fixed by patch

***** Previous Merge Build IDs *****

Please enter any related Merge Build ID(s) information:

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